

CLAIM AMENDMENTS

Please amend the claims as follows in accordance with the Revised Format of Amendments under 37 C.F.R. § 1.121.

1. (Previously presented) In a building with multiple walls and multiple floors and a heating, ventilating, air-conditioning (HVAC) system, an internal building pressure apparatus comprising:
 - a) at least one pressure sensor per floor on at least two of said multiple floors;
 - b) a connection means for connecting to the pressure sensors; and
 - c) an analysis means connected to said pressure sensors for receiving input from said pressure sensors and comparing at least one pressure reading from one floor with another pressure reading from at least one of the other multiple floors of said building and for providing sensor data output.
2. (Canceled) ~~The apparatus of claim 1 further comprising a control system connected to said analysis means wherein said control system regulates pressure on each floor.~~
3. (Original) The apparatus of claim 1 wherein said building includes multiple floors and said analysis means provides sensor data output form a group of outputs including sensor data output from adjacent floors and sensor data output from non-adjacent floors.
4. (Previously presented) The apparatus of claim 1 wherein said sensor data output includes output from a group including maximum pressure, minimum pressure, average pressure and pressure in-between maximum and minimum, for a particular floor, for a portion of a particular floor and the building as a whole.

5. (Currently amended) The apparatus of claim 1 further comprising the steps of providing at least one pressure sensor outside of said building and wherein said sensor data output includes output from a group including total internal building pressure, internal pressure of a particular floor, internal pressure of a portion of a particular floor and outside pressure.

6. (Currently amended) The apparatus of claim 1 wherein said sensor data output includes output from a group including within wall pressure only and ~~between~~ floor to floor pressure only.

7. (Original) The apparatus of claim 1 wherein element a) includes a plurality of pressure sensors per floor.

8. (Original) The apparatus of claim 1 wherein element a) includes pressure sensors on walls, floors and ceilings.

9. (Previously presented) The apparatus of claim 1 wherein said at least one pressure sensor is placed in a location selected from a group including within a wall cavity, within a floor cavity, within a ceiling cavity, in a room, corridor, hall and foyer and any other interstitial space of said building.

10. (Previously presented) In a building with multiple walls and multiple floors and a heating, ventilating, air-conditioning (HVAC) system, an internal building pressure apparatus comprising:

- a) at least one pressure sensor on at least two of said multiple floors;
- b) a connection to the pressure sensors; and
- c) an analyzer connected to said pressure sensors for receiving

input from said pressure sensors and comparing at least one pressure reading from one floor with another pressure reading from at least one of the other multiple floors of said building and for providing sensor data output.

11. (Canceled) ~~The apparatus of claim 10 further comprising a controller connected to the analyzer for controlling the pressure in said building in response to sensor data output from said analyzer.~~

12. (Original) The apparatus of claim 10 wherein said building includes multiple floors and said analyzer provides sensor data output from a group of outputs including sensor data output from adjacent floors and sensor data output from non-adjacent floors.

13. (Previously presented) The apparatus of claim 10 wherein said sensor data output includes output from a group including maximum pressure, minimum pressure, average pressure and pressure in-between maximum and minimum, for a particular floor, for a portion of a particular floor and the building as a whole.

14. (Currently amended) The apparatus of claim 10 further comprising the steps of providing at least one pressure sensor outside of said building and wherein said sensor data output includes output from a group including total internal building pressure, internal pressure of a particular floor, internal pressure of a portion of a particular floor and outside pressure.

15. (Currently amended) The apparatus of claim 10 wherein said sensor data output includes output from a group including within wall pressure only and ~~between~~ floor to floor pressure only.

16. (Original) The apparatus of claim 10 wherein element a) includes a plurality of pressure sensors per floor.

17. (Original) The apparatus of claim 10 wherein element a) includes pressure sensors on walls, floors and ceilings.

18. (Previously presented) The apparatus of claim 10 wherein said at least one pressure sensor is placed in a location selected from a group including within a wall cavity, within a floor cavity, within a ceiling cavity, in a room, corridor, hall and foyer and any other interstitial space of said building.

19. (Previously presented) In a building with multiple walls and multiple floors and a heating, ventilating, air-conditioning (HVAC) system, an internal building pressure method, the method comprising the steps of:

- a) providing at least one pressure sensor on at least two of said multiple floors;
- b) connecting to the pressure sensors;
- c) attaching an analyzer to said pressure sensors for receiving input from said pressure sensors and comparing at least one pressure reading from one floor with another pressure reading from at least one of the other multiple floors of said building and for providing sensor data output.

~~20. (Cancelled) The method of claim 19 further comprising the step of attaching a controller to the analyzer and controlling the pressure in said building in response to sensor data output from said analyzer.~~

21. (Original) The method of claim 19 wherein said building includes multiple floors and said analyzer provides sensor data output form a group of outputs including sensor data output from adjacent floors and sensor data output from non-adjacent floors.

22. (Previously presented) The method of claim 19 wherein said sensor data output includes output from a group including maximum pressure, minimum pressure, average pressure and pressure in-between maximum and minimum, for a particular floor, for a portion of a particular floor and the building as a whole.

23. (Original) The method of claim 19 further comprising the step of providing at least one pressure sensor outside of said building and wherein said sensor data output includes output from a group including total internal building pressure, internal pressure of a particular floor, internal pressure of a portion of a particular floor and outside pressure.

24. (Currently amended) The method of claim 19 wherein said sensor data output includes output from a group including within wall pressure only and ~~between~~ floor to floor pressure only.

25. (Original) The method of claim 19 wherein step a) includes providing a plurality of pressure sensors per floor.

26. (Original) The method of claim 19 wherein step a) includes providing pressure sensors on walls, floors and ceilings.

27. (Previously presented) The method of claim 19 further comprising the step of placing pressure sensors at locations selected from a group

including within a wall cavity, within a floor cavity, within a ceiling cavity, in a room, corridor, hall and foyer and any other interstitial space of said building.

28. (Previously presented) The apparatus of claim 1 further comprising the steps of attaching a controlling means to the analyzing means and the HVAC system and controlling the pressure on at least one of the multiple floors in response to sensor data output from said analyzer by controlling the operation of the HVAC system so as to attain a desired pressure on at least one of said multiple floors.

29. (Currently amended) The apparatus of claim 1 further comprising the ~~step~~ steps of providing at least one dynamic pressure sensor to measure the direction and velocity of air as it flows between at least two adjacent floors of said multiple floors and element c) includes analyzing this dynamic pressure relationship.

30. (Currently amended) The apparatus of claim 1 further comprising the ~~step~~ steps of providing at least one dynamic pressure sensor between non-adjacent floors, of said multiple floors, utilizing tubes or the like between these non-adjacent floors to allow them to communicate their dynamic pressure difference and element c) includes analyzing this dynamic pressure relationship.

31. (Currently amended) The apparatus of claim 1 further comprising the ~~step~~ steps of providing at least one dynamic skin pressure sensor and said sensor data output includes choosing the output from a group including total internal building pressure, internal pressure of a particular floor, internal pressure of a portion of a particular floor, dynamic building skin

pressure ~~or between~~, and floor to floor dynamic pressure, and element c) includes analyzing this dynamic pressure relationship.

32. (Previously presented) The apparatus of claim 31 wherein a plurality of dynamic pressure sensors are utilized.

33. (Previously presented) The apparatus of claim 1 utilizing a computer.

34. (Previously presented) The apparatus of claim 1 utilizing computer readable data storage medium to store the instructions.

35. (Previously presented) The apparatus of claim 10 further comprising the steps of attaching a controller to the analyzer and the HVAC system and controlling the pressure on at least one of the multiple floors in response to sensor data output from said analyzer by controlling the operation of the HVAC system so as to attain a desired pressure on at least one of said multiple floors.

36. (Currently amended) The apparatus of claim 10 further comprising the ~~step~~ steps of providing at least one dynamic pressure sensor to measure the direction and velocity of air as it flows between at least two adjacent floors of said multiple floors and element c) includes analyzing this dynamic pressure relationship.

37. (Currently amended) The apparatus of claim 10 further comprising the ~~step~~ steps of providing at least one dynamic pressure sensor between non-adjacent floors, of said multiple floors, utilizing tubes or the like between these non-adjacent floors to allow them to communicate their dynamic pressure difference and element c) includes analyzing this dynamic pressure relationship.

38. (Currently amended) The apparatus of claim 10 further comprising he ~~step steps~~ of providing at least one dynamic skin pressure sensor and said sensor data output includes choosing the output form a group including total internal building pressure, internal pressure of a particular floor, internal pressure of a portion of a particular floor, dynamic building skin pressure ~~or between,~~ and floor to floor dynamic pressure, and element c) includes analyzing this dynamic pressure relationship.

39. (Previously presented) The apparatus of claim 38 wherein a plurality of dynamic pressure sensors are utilized.

40. (Previously presented) The apparatus of claim 10 utilizing a computer.

41. (Previously presented) The apparatus of claim 10 utilizing computer readable data storage medium to store the instructions.

42. (Previously presented) The method of claim 19 further comprising the steps of attaching a controller to the analyzer and the HVAC system and controlling the pressure on at least one of the multiple floors in response to sensor data output from said analyzer by controlling the operation of the HVAC system so as to attain a desired pressure on at least one of said multiple floors.

43. (Currently amended) The method of claim 19 further comprising the ~~step steps~~ of providing at least one dynamic pressure sensor to measure the direction and velocity of air as it flows between at least two adjacent floors of said multiple floors and element c) includes analyzing this dynamic pressure relationship.

44. (Currently amended) The method of claim 19 further comprising the ~~step~~ steps of providing at least one dynamic pressure sensor between non-adjacent floors, of said multiple floors, utilizing tubes or the like between these non-adjacent floors to allow them to communicate their dynamic pressure difference and element c) includes analyzing this dynamic pressure relationship.

45. (Currently amended) The method of claim 19 further comprising the steps of providing at least one dynamic skin pressure sensor and said sensor data output includes choosing the output form a group including total internal building pressure, internal pressure of a particular floor, internal pressure of a portion of a particular floor, dynamic building skin pressure ~~or between,~~ and floor to floor dynamic pressure, and element c) includes analyzing this dynamic pressure relationship.

46. (Previously presented) The method of claim 45 wherein a plurality of dynamic pressure sensors are utilized.

47. (Previously presented) The method of claim 19 utilizing a computer.

48. (Previously presented) The method of claim 19 utilizing computer readable data storage medium to store the instructions.